

MUKLUK EXPEDITION

July - August 1957

CORES AND DREDGE SAMPLES

Information from Shipboard Coring Log.

(Uncorrected depths assume a sound velocity of 4800 ft./sec. Corrected depths are based on Matthews' tables.)

- B 1 a, b, c: 11 July 1957, 0920-1442 hrs.; $35^{\circ} 15' N$, $129^{\circ} 16' W$; uncorrected depth 2530 fm. (4736 m.) core lengths 1a, 176 cm.; 1b, 150 cm.; 1c, 174 cm. Entirely buff clay. 1b and 1c extruded for organic analysis.
- B 2 G: 13 July 1957, 1530-1815 hrs.; $38^{\circ} 54.8' N$, $136^{\circ} 13' W$; uncorrected depth 2660 fm. (4876 m.) core length 60 cm. Buff clay. Core badly disturbed—part lost through valve.
- B 3 P & G: 14 July 1957, 1404-1900 hrs.; $40^{\circ} 22.7' N$, $136^{\circ} 19' W$; corrected depth 2440 fm. (4462 m.) core length 726 cm. Few rocks in gravity core. Buff clay.
- B 4 G: 15 July 1957, 1443-1640 hrs., $40^{\circ} 20.1' N$, $136^{\circ} 16.6' W$; uncorrected depth 2490 fm. (4560 m.) core length 128 cm. Buff clay.
- B 5 P & G: 16 July 1957, 0650-1122 hrs.; $41^{\circ} 10.5' N$, $138^{\circ} 45.1' W$; corrected depth 2340 fm. (4285 m.) core length 10 cm. and 126 cm. gravity. Piston jammed in barrel 10 cm. up. Buff clay with pebble on top of gravity core.
- B 6 P & G: 17 July 1957, 0520-1020 hrs.; $42^{\circ} 18.8' N$, $141^{\circ} 28' W$; corrected depth 2443 fm. (4480 m.) core length 790 cm. and 150 cm. gravity. Buff clay over carbonate ooze over chocolate clay.
- B 7 P & G: 18 July 1957, 1500-2140 hrs.; $45^{\circ} 03.5' N$, $144^{\circ} 29.5' W$; corrected depth 2582 fm. (4722 m.) core length 827 cm. and 148 cm. gravity. Blue-green clay with sand. On abyssal plain.
- B 8 G: 19 July 1957, 1526-1776 hrs.; $45^{\circ} 01.4' N$, $144^{\circ} 28.5' W$; corrected depth 2554 fm. (4690 m.) core length 106 cm. Hard buff to yellow-green clay. On small hill in abyssal plain.
- B 9 P: 25 July 1957, 1050-1715 hrs.; $51^{\circ} 32' N$, $154^{\circ} 30' W$; corrected depth 2573 fm. (4700 m.) core length 275 cm. Grey sandy silty gravel. Top of core—about two gallons of soup.
- B 10 P & G: 27 July 1957, 0940-1620 hrs.; $53^{\circ} 15' N$, $157^{\circ} 02' W$; corrected depth 2492 fm. (4560 m.) core length 847 cm. and 128 cm. gravity. Blue mud. On smooth rise S of Aleutian Trench.

- B 11 P & G: 29 July 1957, 1245-2225 hrs.; $53^{\circ} 14.4' N$, $161^{\circ} 50' W$; corrected depth 3764 fm. (6989 m.) core length 4 buckets full plus 1 meter core and 61 cm. gravity core. Grey-green silt. In Aleutian Trench.
- B 12 P & G: 31 July 1957, 0500-0730 hrs.; $54^{\circ} 46.7' N$, $168^{\circ} 18.8' W$; corrected depth 1075 fm. (1960 m.) core length 586 cm. and 108 cm. gravity. Olive to blue silty clay. In Bering Sea.
- B 13 Snapper: 31 July 1957, 2330 approx.; $56^{\circ} 05' N$, $168^{\circ} 15' W$; uncorrected depth 78 fm. Sample: 2 qts., green diatomaceous pebbly sand. On shelf, Bering Sea.
- B 14 Snapper: 1 August 1957, 0830 approx.; $56^{\circ} 01' N$, $168^{\circ} 24' W$; uncorrected depth 107 fm. Sample: 1 qt. green diatomaceous pebbly sand. On shelf, Bering Sea.
- B 15 Snapper: 6 August 1957, 1600 approx.; $57^{\circ} 54.8' N$, $151^{\circ} 45.2' W$; uncorrected depth 32 fm. Sample: 1 qt. clean sand. On shelf near Kodiak.
- B 16 Snapper: 6 August 1957, 2100 approx.; $57^{\circ} 51' N$, $151^{\circ} 38.5' W$; uncorrected depth 32 fm. 1 pt. green shelly sand. On shelf near Kodiak.
- B 17 Snapper: 7 August 1957, 1330 approx.; $56^{\circ} 20' N$, $153^{\circ} 39.5' W$; uncorrected depth 38 fm. Shell debris and pebbles. On shelf of south end of Kodiak Island.
- B 18 P: 8 August 1957, 1345-2100 hrs.; $56^{\circ} 00' N$, $151^{\circ} 51' W$; corrected depth 2927 fm. (5340 m.) core length 893 cm. No gravity core. Blue-green mud. In Aleutian Trench. Sediment apparently disturbed during coring.
- B-19 P & G: 10 August 1957, 1240-1818 hrs.; $50^{\circ} 51' N$, $147^{\circ} 50' W$; corrected depth 2495 fm. (4560 m.) core length 850 cm. and a few pebbles in gravity core.
- B 20 P & G: 11 August 1957, 1115-1535 hrs.; $51^{\circ} 31' N$, $144^{\circ} 39' W$; corrected depth 2310 fm. (4225 m.) core length 850 cm. and a few grains and pebbles in gravity core. Buff foram ooze.
- B 21 P & G: 13 August 1957, 1245-1630 hrs.; $52^{\circ} 32' N$, $141^{\circ} 44' W$; corrected depth 2067 fm. (3792 m.) core length 876 cm. and 103 cm. gravity. Foram ooze and blue mud. On abyssal plain.
- B 22 P & G: 14 August 1957, 1715-2118 hrs.; $53^{\circ} 02' N$, $139^{\circ} 16' W$; corrected depth 1977 fm. (3605 m.) core length 904 cm. and 104 cm. gravity. Blue-green clay. On abyssal plain.

- B 23 P & G: 15 August 1957, 1115-1425 hrs.; $53^{\circ} 50' N$, $136^{\circ} 20' W$; corrected depth 1708 fm. (3115 m.) core length 906 cm. and 93 cm. gravity. Blue-green clay. On abyssal plain.
- B 24 Snapper: 18 August 1957, 0845 approx.; $55^{\circ} 02.7' N$, $131^{\circ} 09.6' W$; uncorrected depth 320 m. 1 qt. smelly green mud with clams. Off Duke Island.
- B 25 G: 18 August 1957, 0915 approx.; $55^{\circ} 02.7' N$, $131^{\circ} 09.6' W$; uncorrected depth 350 m. core length 127 cm. Smelly green mud.
- B 26 Snapper: 18 August 1957, 1215 approx.; $54^{\circ} 48.1' N$, $131^{\circ} 14.8' W$; 1 pt. shelly green gravel.
- B 27 G: 18 August 1957, 1230 approx.; $54^{\circ} 48.1' N$, $131^{\circ} 14.8' W$; core length 36 cm. Green pebbly sand.
- B 28 Snapper: 19 August 1957, 5 mi. off Langara I. 297°; uncorrected depth 240 fm. (445 m.) 1 pt. green muddy sand.
- B 29 D: 20 August 1957, approx. 1300 hrs.; $53^{\circ} 15' N$, $136^{\circ} 46' W$, uncorrected depth 120-130 fm. Deep sea dredge on Hodgkins Bank terrace.
- B 30 D: 20 August 1957, approx. 1400 hrs.; $53^{\circ} 15' N$, $136^{\circ} 46' W$; uncorrected depth 40-60 fm. Full bag deep sea dredge. Hodgkins Bank Pinnacles.
- B 31 G: 23 August 1957, 1322-1430 hrs.; $42^{\circ} 05' N$, $125^{\circ} 39' W$; corrected depth 1595 fm. (2917 m.) core length 132 cm. Green clay.
- H 1 a, b: 12 July 1957, 1330-2326 hrs.; $38^{\circ} 06' N$, $133^{\circ} 00' W$; uncorrected depth 2664 fm. (4870 m.) core lengths 135 cm. Grey silty clay.
- H 2 G: 17 July 1957, 1350-1630 hrs.; $42^{\circ} 41.7' N$, $142^{\circ} 15.8' W$; uncorrected depth 2360 fm. (4310 m.) core length 26 cm. Buff-grey clay.
- H 3 G: 17 July 1957, 1615-1716 hrs.; $42^{\circ} 41.3' N$, $142^{\circ} 15' W$; uncorrected depth 2368 fm. (4330 m.). No core.
- H 4 G: 17 July 1957, 2015-2330 hrs.; $42^{\circ} 41' N$, $142^{\circ} 09.9' W$; uncorrected depth 2356 fm. (4310 m.) core length 35 cm. Buff-grey clay.
- H 5 G: 18 July 1957, 0010-0325 hrs.; $42^{\circ} 41' N$, $142^{\circ} 09.9' W$; uncorrected depth 2347 fm. (4290 m.) core length 38 cm. Buff-grey clay.

- H 6 G: 21 July 1957, 2030-2345 hrs.; $45^{\circ} 40.5'$ N, $144^{\circ} 24.7'$ W; uncorrected depth 2498 fm. (4570 m.) core length 55 cm. Grey clay.
- H 7 G: 22 July 1957, 0835-0955 hrs.; $45^{\circ} 37.8'$ N, $144^{\circ} 27.1'$ W; uncorrected depth 2507 fm. (4580 m.) core length 184 cm. Grey clay.
- H 8 G: 22 July 1957, 1015-1120 hrs.; $45^{\circ} 39.1'$ N, $144^{\circ} 26.9'$ W; uncorrected depth 2497 fm. (4570 m.) core length 180 cm. Grey clay.
- H 9 G: 26 July 1957, 2050-2315 hrs.; $53^{\circ} 14.9'$ N, $156^{\circ} 56.9'$ W; uncorrected depth 2427 fm. (4430 m.) core length 51 cm. Grey clay.
- H 10 G: 27 July 1957, 0615-0720 hrs.; $53^{\circ} 27.8'$ N, $155^{\circ} 51.3'$ W; uncorrected depth 2430 fm. (4430 m.). No core.
- H 11 G: 31 July 1957, 1214-1340 hrs.; $55^{\circ} 35.2'$ N, $169^{\circ} 22.5'$ W; uncorrected depth 1598 fm. (2930 m.) core length 74 cm. Grey clay.
- H 12 D (by bathythermograph): 1 August 1957, 0600 hrs.; $55^{\circ} 59'$ N, $168^{\circ} 27'$ W; uncorrected depth 85 fm. (165 m.). Few small pebbles.
- H 13 G: 1 August 1957, 1550-1610 hrs.; $54^{\circ} 53.5'$ N, $167^{\circ} 02.5'$ W; uncorrected depth 126 fm. (230 m.) core length 27 cm. Green silty clay.
- H 14 G: 1 August 1957, 2315-2325 hrs.; $54^{\circ} 51.2'$ N, $167^{\circ} 06.7'$ W; uncorrected depth 120 fm. (220 m.) core length 134 cm. Greenish silty clay.
- H 15 G: 8 August 1957, 0057-0445 hrs.; $55^{\circ} 22.4'$ N, $152^{\circ} 57.7'$ W; uncorrected depth 2870 fm. (5270 m.) core length 12 cm. Buff-grey clay.
- H 16 G: 10 August 1957, 0317-0520 hrs.; $50^{\circ} 40.5'$ N, $148^{\circ} 49.2'$ W; uncorrected depth 2540 fm. (4640 m.). Small volume of greyish-brown sandy silt with pebbles.
- H 17 G: 10 August 1957, 0550-0700 hrs.; $50^{\circ} 40.2'$ N, $148^{\circ} 50'$ W; uncorrected depth 2465 fm. (4510 m.). Small volume of brownish-grey sandy silt.
- H 18 G: 10 August 1957, 0900-1130 hrs.; $50^{\circ} 39'$ N, $148^{\circ} 51.8'$ W; uncorrected depth 2482 fm. (4540 m.). Small volume of brownish-grey sandy silt with pebbles.

- H 19 G: 11 August 1957, approx. 0500 hrs.; $51^{\circ} 14.2' N$, $145^{\circ} 39.8' W$; uncorrected depth 2253 fm. (4120 m.) core length 10 cm. Brown clay over brownish-grey sandy silt with pebbles.
- H 20 G: 12 August 1957, 1322-1415 hrs.; $52^{\circ} 28' N$, $141^{\circ} 49.2' W$, No core.
- H 21 G: 12 August 1957, 1453-1540 hrs.; $52^{\circ} 28.6' N$, $141^{\circ} 50.3' W$; uncorrected depth 1982 fm. (3640 m.). Small amount of basalt and sand grains.
- H 22 G: 12 August 1957, 1559-1645 hrs.; $52^{\circ} 27.4' N$, $141^{\circ} 48.2' W$; uncorrected depth 2036 fm. (3710 m.). No core.
- H 23 G: 12 August 1957, 1735-1820 hrs.; $52^{\circ} 27.4' N$, $141^{\circ} 48.2' W$; uncorrected depth 2036 fm. (3710 m.). Approx. 80 cm. of core fell out of liner; 16 cm. retained in liner. Brownish-grey silty clay.
- H 24 G: 12 August 1957, 1850-1940 hrs.; $52^{\circ} 27.3' N$, $141^{\circ} 53.1' W$; uncorrected depth 2034 fm. (3710 m.). Approx. 45 cm. of core fell out of liner; 26 cm. retained in liner. Brownish-grey clay.
- H 25 G: 12 August 1957, 2019-2110 hrs.; $52^{\circ} 31.5' N$, $141^{\circ} 54.5' W$; uncorrected depth 2030 fm. (3700 m.). Core washed out on recovery--small amount preserved. Brownish-grey clay.
- H 26 G: 12 August 1957, 2135-2245 hrs.; $52^{\circ} 31.5' N$, $141^{\circ} 49.1' W$; uncorrected depth 2035 fm. (3710 m.) core length 36 cm.-- sediment probably disturbed. Greenish-grey clay.
- H 27 G: 13 August 1957, 0848-1035 hrs.; $52^{\circ} 31.8' N$, $142^{\circ} 06' W$; uncorrected depth 2043 fm. (3730 m.), core length 40 cm. Light brown clay.
- H 28 G: 13 August 1957, 1857-1946 hrs.; $52^{\circ} 45.2' N$, $140^{\circ} 40.8' W$; uncorrected depth 1968 fm. (3600 m.) core length 133 cm. Brown clay over blue-grey clay.
- H 29 G (two attempts): 13 August 1957, 2018-2152 hrs.; $52^{\circ} 48.2' N$, $140^{\circ} 41' W$; uncorrected depth 1968 fm. (3600 m.). Small volume of brown clay.
- H 30 G: 13 August 1957, 2218-2307 hrs.; $52^{\circ} 48.2' N$, $140^{\circ} 36.0' W$; uncorrected depth 1968 fm. (3600 m.) core length 134 cm. Brown clay over blue-grey clay.
- H 31 G: 14 August 1957, 2035-2125 hrs.; $53^{\circ} 16.3' N$, $138^{\circ} 24.4' W$; uncorrected depth 1851 fm. (3390 m.). Small volume of brown clay.

* O Q C

H 32 G: 15 August 1957, 1505-1610 hrs.; 54° 03.8' N, 135° 25' W;
uncorrected depth 1428 fm. (2620 m.) core length 126 cm.
Greenish clay, brown at top.

H 33 G: 16 August 1957, approx. 1000 hrs.; 53° 41.5' N, 133° 22.2' W;
uncorrected depth 468 fm. (860 m.) core length 5 cm. Hard,
brittle grey clay.